

**PENGEMBANGAN LKS IPA BERBASIS INKUIRI TERBIMBING TEMA
“TEKANAN DALAM SISTEM PERNAPASAN MANUSIA” UNTUK
MENINGKATKAN *ORAL ACTIVITIES* DAN HASIL BELAJAR
KOGNITIF SISWA KELAS VIII SMP**

**Oleh:
Avi Nurul Makrifah
11312241035**

ABSTRAK

Penelitian ini bertujuan untuk mengetahui kelayakan LKS IPA berbasis Inkuiri Terbimbing pada Tema “Tekanan dalam Sistem Pernapasan Manusia” yang dikembangkan untuk kegiatan pembelajaran dan mendapatkan peningkatan *oral activities* serta hasil belajar kognitif siswa dari penerapan LKS IPA berbasis Inkuiri Terbimbing yang dikembangkan untuk kegiatan pembelajaran.

Desain penelitian ini menggunakan model penelitian pengembangan (*research and development*) model 4-D Thiagarajan dan Semmel meliputi tahap: (1) *define* yaitu analisis ujung depan, analisis siswa, analisis tugas, analisis konsep, dan perumusan tujuan pembelajaran; (2) *design* yaitu berupa penyusunan kerangka isi LKS IPA; (3) *develop* yaitu validasi dosen ahli, validasi guru IPA SMP, revisi, dan uji coba lapangan; (4) *disseminate* yaitu dengan memberikan LKS IPA kepada guru IPA SMP. Instrumen penelitian berupa lembar validasi untuk mengetahui kelayakan LKS IPA, lembar observasi untuk mengetahui peningkatan *oral activities* siswa, instrumen soal *pretest* dan *posttest* untuk mengetahui hasil belajar kognitif siswa, dan angket untuk mengetahui respon siswa terhadap LKS IPA. Teknik analisis data menggunakan pedoman kriteria penilaian ideal untuk menentukan kualitas LKS IPA, data *oral activities* berupa rata-rata persentase, dan data hasil belajar kognitif siswa menggunakan *gain score* sebelum dan sesudah pembelajaran menggunakan LKS IPA.

Hasil pengembangan LKS IPA memenuhi kriteria kelayakan dengan kategori “Baik” dilihat dari aspek kelayakan isi, aspek penyajian inkuiri terbimbing dan aspek bahasa serta kegrafisan. Pengembangan LKS IPA juga mendapatkan respon siswa dengan kategori “Baik”. *Oral activities* siswa meningkat pada persentase rata-rata dengan kategori “Baik”. Sedangkan peningkatan hasil belajar kognitif siswa berdasarkan analisis menggunakan *gain score* mendapatkan kategori “Sedang”.

Kata kunci: LKS IPA, Inkuiri Terbimbing, *Oral Activities*, Hasil Belajar Kognitif

**DEVELOPING SCIENCE STUDENT WORKSHEET BASED ON GUIDED
INQUIRY ON TOPIC “TEKANAN DALAM SISTEM PERNAPASAN
MANUSIA” TO INCREASE ORAL ACTIVITIES AND COGNITIVE
LEARNING OUTCOMES OF JUNIOR HIGH SCHOOL STUDENTS GRADE
VIII.**

**By:
Avi Nurul Makrifah
11312241035**

ABSTRACT

This research aims to determine the quality of science student worksheet based on guided inquiry on topic “Tekanan dalam Sistem Pernapasan Manusia” that being developed for learning activities and to increase student oral activities and cognitive learning outcome from the application of science student worksheet based on guided inquiry that being produced for learning activity.

The design of this study used the model of research and development with the preparation of the student worksheet based on Thiagarajan and Semmel 4-D model, includes: (1) define, namely the front end analysis, student analysis, task analysis, concept analysis, and the formulation of learning objectives; (2) design, which formed the framework of the student worksheet preparation; (3) develop, namely validation of the expert lecturers, junior high school science teachers validation, revision, and field test; (4) disseminate, by providing the student worksheet to the junior high school teachers. Research instruments such as validation sheet to find out the science student worksheet advisability, observation sheet to find out the increase of student oral activities, pretest and posttest question instrument to find out the students cognitive learning outcome, and students questionnaire to find out the students response of science student worksheet. Data analysis technique use the ideal assessment criteria manual to determine the advisability of science student worksheet, oral activities data such as percentage average, and students cognitive learning outcome use before and after learning activities gain score.

The result of the science student worksheet development based on guided inquiry are the student worksheet meet the quality criteria with “Good” category from the aspect of materials advisability, guided inquiry presentation aspect and the language and graphics aspects. The science student worksheet development gets the student responses by means “Good” category. The student oral activities increase with “Good” category. While the student cognitive learning outcome by gain score analysis increase with “Medium” category.

Keywords: Science Student Worksheet, Guided Inquiry, Oral Activities, Cognitive Learning Outcome